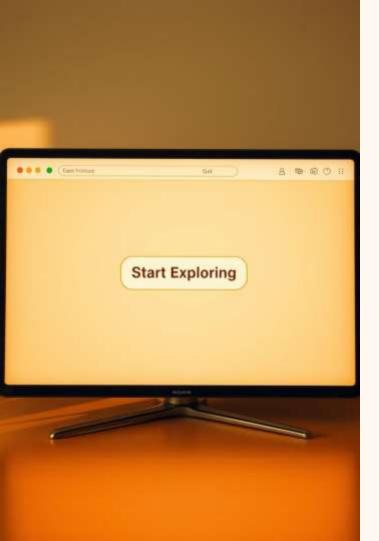


React.js with Next.js

A deep dive into building modern, dynamic web applications with React.js and Next.js.

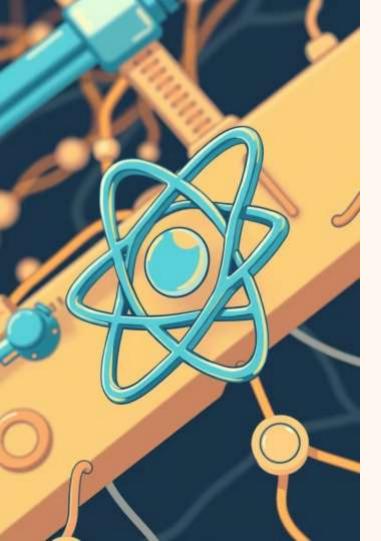
Presented by: alpesh purohit

Website: alpeshconnect.in



React.js and Next.js: An Introduction

Explore React.js, a JavaScript library for building user interfaces. Discover Next.js, a React framework for server-side rendering and static websites. Learn about their features, differences, and directory structure.



React.js: Key Features

- 1 Component-Based

 Reusable UI components with their own state and logic.
- Virtual DOM
 Updates only parts of the UI for faster performance.
- Declarative Syntax

 Describes how the UI should look based on the state.
- 4 JSX
 HTML-like code within JavaScript for UI components.



Next.js: Core

Server-Side Rendering

Renders pages on the server for better performance and SEO.

Static Site Generation

Pre-renders pages as static HTML at build time.

File-Based Routing

Maps file structure to URL routes automatically.

API Routes

Creates API endpoints within the project.

React vs. Next.js: Nature & Rendering

React.js

Library focused on the view layer.

Client-side rendering (CSR) by default.

Next.js

Framework built on React.

SSR and SSG in addition to CSR.

React vs. Next.js: Routing & SEO

React.js

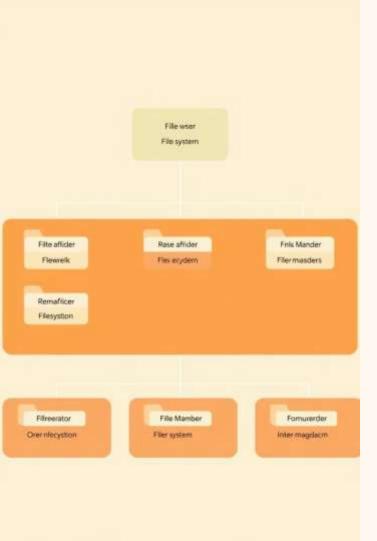
Routing requires libraries like React Router.

CSR may be less SEO-friendly.

Next.js

File-based routing by default.

Improves SEO with SSR and SSG.



Next.js Project: Directory Structure

A typical Next.js project includes folders like public/, src/, components/, pages/, styles/, utils/, and hooks/. Key files include next.config.js and package.json.



Next.js Project: Pages Directory

index.js

Corresponds to the homepage (/ route).

about.js

Maps to the /about route.

_app.js

Entry point for all pages.



Quickstart: React & Next.js

React: npx create-react-app hello

Next.js: npx create-next-app@latest hello-next-app

Run Next.js: npm run dev

Access: http://localhost:3000